



Department of Commerce

Safety & Buildings Division

201 West Washington Avenue

P.O. Box 2689

Madison, WI 53701-2689

Approval #

980086-U

Wisconsin Material Approval

Material

MWP-1000 F.C. Concrete Secondary Containment Vessel

Manufacturer

Midwestern Precast, Inc.
815 Hofland Road
Menomonie, WI 54751

SCOPE OF EVALUATION

The MWP-1000 F.C. concrete secondary containment vessel manufactured by Midwestern Precast, Inc. was evaluated for use as secondary containment for aboveground tanks in accordance with **s. ILHR 10.345 (1)**. It was also evaluated against the vehicle collision protection requirements of **s. ILHR 10.415 (8)**.

DESCRIPTION AND USE

These secondary containment vessels are made of 5,000 psi concrete reinforced with # 4 rebar at 12 inches on center in both directions. The standard vessel has a liquid capacity of 1260 gallons which is approved for fuel tanks with a capacity up to 1,000-gallon. The maximum exterior dimensions are 10 feet long by 8 feet wide by 3 feet high.

Removal of rainwater is accomplished with a 1-inch, corrosion-resistant, self-closing faucet.

TESTS AND RESULTS

Drawings are on file showing configurations and capacities.

Calculations are on file showing conformance with the vehicle collision requirements of **s. ILHR 10.415 (8)**.

LIMITATIONS OF APPROVAL

Additional vehicle collision protection, such as posts or rails in accordance with **s. ILHR 10.415 (8)** is not required provided the tank is fastened with anchor bolts or similar in the center of the vessel and shear valves, flexible connectors or other protective devices are installed on product and/or electrical lines to assure adequate system flexibility should the system be displaced by collision.

The vessels shall be sized to provide sufficient clearance for visual inspection of the tank as required under **s. ILHR 10.415 (13)(a) 1**. No additional clearance for collision protection is required provided the tank is centered in the vessel and firmly attached to the vessel.

Unusual or heavy traffic patterns may require additional visual warning or collision protection.

The vessels shall be sized to provide at least 125 percent of the capacity of the tank in accordance with **s. ILHR 10.345 (1)(a)**.

This approval will be valid through December 31, 2003, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Approval Date: _____ By: _____

Duane Hubeler, PE
Mechanical Code Consultant
Program Development Bureau